Public Works (1913) Department.

G.O. No. 2659.

DATED 9. 5. 1913.

The Notes
in this G.O. have been printed.

[Despatch Abstract.]

Improvements to No. 2 Naranan Kanmoy, Periyar System
Sanctioning with remarks an estimate of Rs 1730 including
establishment charges for ———

P. W. 9.
2,000—2—10—12.

Indexed.

Registered as no 29-I
of 1913-14.

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

Government of Madras.

PUBLIC WORKS DEPARTMENT.

IRRIGATION.
ACCOUNT.

Recd.	1913.	*Enclosures.*
Regd.		*Spare copies*

G.O. No. 265 I., 9th May 1913.

Improvements to No. 2. Naranan Kanmoy, Periyar system.

Sanctioning, with remarks, an estimate of Rs. 1,730 including establishment charges for —.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

READ—the following papers :—

I

Letter—from S. B. MURRAY, Esq., Superintending Engineer, VI Circle.
To—the Chief Engineer for Irrigation.
Dated—Trichinopoly, the 20th March 1913.
No.—474 C.E.

I have the honour to forward herewith for your approval and sanction of Government an estimate amounting to Rs. 1,420 for improvements to the Naranan Kanmoy (one of the tanks ordered to be maintained in G.O. No. 1250-I., dated 15th December 1905, and fed by the 9th Distributary XII Branch channel of the Periyār System) in the Melur taluk, Madura district.

2. The proposed improvements consist of—

	RS.
(i) the construction of a weir, on design M. No. 1-I. of 1913, and the excavation of a surplus channel	597
(ii) Acquiring lands required for the surplus channel. The value of the land has been fixed by the Revenue Department; and	53
(iii) Constructing three cement pipe sluices 6 inches diameter and one cement pipe sluice 9 inches diameter on designs M. Nos. 1-E, 1-F, 1-G, 1-H of 1913	745
(iv) Sundries	25
Total ...	1,420

3. The necessity for, and the details of, the works proposed are explained in the report attached to the estimate.

4. The Executive Engineer proposes to abandon the two tanks, *viz.*, Mandayan Kanmoy and Iswaran Koil Kanmoy and to include the bed and ayacut lands of these tanks under the ayacut of this tank, and the proposal has been approved of by the Collector of Madura in his letter D. Dis. No. 47-Rev. of 1913, dated 6th January 1913 (copy enclosed). It will be seen from the Revenue Statement attached to the estimate, that consequent on the proposed improvements to the tank, there will be an increase in revenue of about Rs. 367, and the proposed work may therefore be classed as a remunerative one.

5. The cost of the 7 pipe sluices, *viz.*—Rs. 70, proposed to be replaced by cement pipe sluices should be written back from the Capital to the Revenue Account of the Periyar System, with reference to Public Works Department Code, paragraph 1921.

6. The work will be completed before the end of 31st March 1914.

7. The estimate amounting to Rs. 240 for repairs to the tank will be sanctioned by me as soon as the improvements estimate is sanctioned by Government.

ENCLOSURES.

(i)

Letter—from the Tahsildar of Melur.
To—the Deputy Collector, Melur division.
Dated—the 22nd December 1912.
No.—D. Dis. 2663/Rev.

With reference to Collector's No. R.O.C. 4188/Gl. of 1912, dated 13th November 1912, calling for report through the Divisional officer as to the advisability of the abandonment of certain insignificant tanks in Kuruchipatti village, I beg to report as follows.

2. Mandayan Kanmoy and Eswaran Koil Endal referred to in the above reference are two insignificant tanks under Naranan Kanmoy. The above two tanks have got separate ayacut of their own. Though they have separate ayacut, yet if the Naranan Kanmoy is extended and repaired, it can irrigate their ayacut lands in addition to its own. The statement of the karnam to the above effect is herewith enclosed.

3. I therefore beg to recommend that the two insignificant tanks may be abandoned.

No. Dis. 2266/*Gl. of* 1912.

Submitted to the Collector of Madura with reference to his No. R.O.C. 4188/Gl. of 1912, dated 13th November 1912.

2. In the circumstances reported by the Tahsildar the two insignificant tanks referred to by the Executive Engineer may be abandoned.

P. KRISHNAN NAMBIYAR,
27*th December* 1912. *Divisional officer, Melur.*

No. D. Dis. 47/*Rev. of* 1913, *dated* 6*th January* 1913.

Communicated to the Executive Engineer, Madura division, with reference to his No. 2059/M., dated 2nd November 1912. The two insignificant tanks may be abandoned.

W. A. DOIG,
Ag. Collector.

(ii)

Report to accompany the estimate for Improvements and Repairs to No. 2 Naranan Kanmoy of Kurichipatti village, Melur taluk.

		RS.
Amount of estimate ...	Improvements	1,420
	Repairs	240

This is one of the tanks proposed to be maintained in G.O. No. 1250-I, dated 15th December 1905.

The tank is situated about 1 furlong north-west of Kovilpatti hamlet of No. 85 Kurichipatti village, Melur Taluk. It receives 416 cubic feet from its free basin of 0·76 square mile and a supply of Periyar water at the left flank through a channel dug from sluice No. 23 of the 9th Distributary of the XII Branch Channel. This supply channel which runs in the foreshore of Serumaruthen Kanmoy now crosses the bund of that tank through an open mamool cut which is closed when not required by a temporary bund. To obviate the necessity for this practice a 12-inch pipe sluice has been provided, partly for direct irrigation but mostly to lead this supply channel for the supply of Naranan Kanmoy, in the estimate amounting to Rs. 2,280 sanctioned in G.O. No. 138-I, dated 11th April 1912, C.R.No. 51/1912–13 for the improvements of that tank which is under execution.

The tank at present surpluses through the cut or opening in the bund at the extreme right flank which being inadequate to discharge the maximum quantity of surplus, a weir 75 feet long will be constructed at the right flank to discharge the M. F. water with a head of 1½ feet. There being no defined surplus course in rear of the escape, a channel 36 feet wide and a fall of 1⅓ feet in 1,000 will be excavated to discharge the full quantity with 2⅓ feet depth of flow in the channel. Provision for acquiring lands is also made in the estimate. The tank empties into Kurichi Kanmoy.

The bund wherever low will be made up to 3 feet above M W.L. with top width 4 feet, and side slopes 1½ and 2 to 1 in front and rear respectively. The top and slopes 1½ feet on either side will be gravelled 6 inches thick between L.S. 700 and 1,800 where the bund is made up with and has to be raised with tank-bed earth which is sticky when moist and friable when dry. Provision for a ramp at the site of the cart-track crossing at L.S. 2,700 at right flank is also allowed.

The bund is unrevetted throughout and will be left as it is.

There are at present 8 pot sluices all of which are leaky and have no front or rear head walls for regulation. As the whole ayacut can be commanded by 4 sluices, provision has now been made for 4 pipe sluices to be newly built with regulating and locking arrangements. The dry stone sluice No. 1 at the extreme left end with its sill at nearly F.T.L. will be left as it is, as it is required for irrigating part of one survey number by baling, as it is too high though included as ayacut under the tank even in the settlement.

The F.T.L. has been fixed by existing water marks and local enquiries with reference to the mamool submergence of foreshore lands, for which a statement is attached verified by the Revenue Department—*vide* Collector's D. Dis. No. 480 Rev. of 1912, dated 9th February 1912, (copy enclosed).

It is proposed in this estimate to abandon the two insignificant tanks, *i.e.*, (1) S. No. 415 Mandayan Kanmoy, (2) S. No. 404 Iswarankoil Kanmoy as their beds and ayacuts are directly irrigable by the tank water; the same has been approved by the Collector in his D. Dis. No. 47 Rev. of 1913, dated 6th January 1913 (copy enclosed). The extent, etc., are noted in the Revenue Statement attached and the same have been verified by the Revenue Department.

The value of lands to be acquired for the surplus course has been fixed by the Revenue Department in Tahsildar's letter No. N. Dis. 2401/Gl. of 1911, dated 5th July 1911.

The approximate value of temporary sluices is as follows:—

Sluice Nos. 1 to 8 about Rs. 10 each.

Data sheet for the rates allowed accompanies the estimate.

V. HART,
Executive Engineer, Madura division.

(iii)

UPPAR ODAI MINOR BASIN, MADURA DISTRICT.

ADANI KANMOY GROUP.
KURICHI KANMOY SUB-GROUP.

NO. 2, NARANAN TANK.

No. 95 IN P.W.D. LIST.

G.O. No. 1250 I., dated 15th December 1905.

This tank is situated about 1 furlong north-west of Koilpatty hamlet of No. 85 Kurichipatti village, Melur taluk. It receives the drainage from its free basin and a supply of Periyar water at the left flank through a channel dug from sluice No. 23 of D. 9 of B.C. 12, and surpluses into No. 1 Kurichi Kanmoy.

V. HART,
Executive Engineer, Madura Division.

STANDARD TO BE MAINTAINED.

F.T.L.	47·00 ft.
M.W.L.	48·50 ,,
Top of bund	51·50 ,,
Top width	4 ,,
Side slopes ... ... front and rear.	1½ & 2 to 1 in
Height of revetment above M.W.L. ...	

BENCH MARKS.

I.—B.M. on Kandam stone on top of bund at L. S. 196	R. L. + 50·00 assumed.
II.—B.M. on Kandam stone in rear of bund at L. S. 2,800 on the western side of cart-track Amman Koil	R. L. + 48·26
Height of Datum above Mean Sea level.	

MAXIMUM DISCHARGE TO BE PROVIDED FOR.

Co-efficients, C = 550; *c* =	100.
Area of free basin	0·76 sq. mile.
Number of tanks above ...	*Nil.*
Combined catchment area ...	0·76 sq. mile.
Maximum discharge from combined catchment area.	414 c. ft.
Maximum Discharge from channel	*Nil.*
Total discharge to be provided for	414 ,,

DETAILS OF STORAGE.

Area of waterspread at F.T.L.	1·81 mills. sq. ft.
Capacity of tank at F.T.L. ...	4·22 mills. c. ft.
Total annual storage	(Receives Periyar supply.)
Capacity of tanks above	*Nil.*

SURPLUS ARRANGEMENTS.

Effective length of masonry escapes	*Nil.*
Proposed additional length of masonry escape ...	75 ft.
Discharge over total length	416 c. ft.
Effective length of Byewashes	...
Proposed additional length of Byewashes	...
Discharge over total Byewashes	...
Total maximum discharge provided for	416 c. ft.

DETAILS OF IRRIGATION.

Ayacut area as per settlement	53·33 acres.
Proposed ultimate area ...	115·63 ,,
Water stored per acre	...

LEVELS OF SLUICES.

Sill of sluice No. 1, from the left flank	44·50
Sill of sluice No. 2, from the left flank	40·00
Sill of sluice No. 3, from the left flank	52·50
Sill of sluice No. 4, from the left flank	44·00
Sill of sluice No 5. from the left flank	...
Sill of sluice No. 6, from the left flank	...

(iv)

Letter—from the Collector of Madura.
To—the Executive Engineer, Madura Division.
Dated—9th February 1912.
No.—D. Dis. 480-Rev.

With reference to your No. 988 M., dated 29th May 1911, I have the honour to state that the lands referred to in the land statements of the tanks noted in the margin are now reported to be subject to mamool submergence. The enclosures received are returned herewith.

1. * *
2. * *
3. Naranan Kanmoy.
4. * *

(v)

Revenue Statement to accompany the estimate for Improvements to No. 2 Naranan Kanmoy.

Name of village, taluk, tank, etc.	Existing wet.			Putta dry.		Irrigable waste.				Irrigable tank bed				Total revenue.
	Area in acres.	Old revenue.	Increase in revenue.	Area in acres.	Revenue as single crop wet at Rs. 5 per acre.	Area in acres.	Revenue as single crop wet at Rs. 5 per acre.	Probable sale proceeds at Rs. 100 per acre.	Four per cent. on sale-proceeds.	Area in acres.	Revenue as single crop wet at Rs. 5 per acre.	Probable sale-proceeds at Rs. 200 per acre.	4 per cent. on sale-proceeds.	
		RS.	RS.		RS.		RS.	RS.	RS.		RS.	RS.	RS.	RS.
No. 85. Kurichipatti village, Melur taluk. No. 2. Naranan Kanmoy.	78·71	512	..	11·02	55	6·32	32	632	25	*19·58	98	3,916	157	879

Remarks.—Increase in revenue consequent on the proposed outlay is Rs. 367.

* Details—

S. Nos.	Name of insignificant tanks proposed to be abandoned.	Extent.
		ACS.
415	Mandayan Kanmoy	17·61
404	Endal	1·97
	Total acreage ..	19·58

V. Hart,
Executive Engineer, Madura Division.

II

Note by the Chief Engineer for Irrigation, R.O.C. No. 1048/13, dated 5th May 1913.

With his letter No. 474 C.E., dated 20th March 1913, the Superintending Engineer, VI Circle, submits an estimate amounting to Rs. 1,420 for improvements to Naranan Kanmoy, Periyar system, Melur taluk, Madura district. The estimate provides for —

	RS.
(1) Constructing a masonry weir at right flank and excavating a surplus channel therefrom	597
(2) Constructing four pipe sluices	745
(3) Land compensation for surplus channel	53
(4) Demarcation, etc.	25
Total ...	1,420

2. The Naranan Kanmoy has at present an ayacut of 53·33 acres. It is proposed to increase the ayacut to 115·63 acres by converting 17·34 acres of dry and waste lands into wet and by abandoning two insignificant tanks below it (viz., Mandayan Kanmoy and Iswaran Koil Endal) and including their beds and ayacut lands amounting to 19·58 and 25·38 acres respectively under the direct irrigation of this tank. The anticipated increase in revenue is shown to be Rs. 367 and the proposal has been approved by the Collector.

3. The surplus from the tank passes through a cut in the bund at the right flank where a masonry weir 75 feet long is proposed to be built to discharge the whole surplus. There being no defined surplus course in rear of the escape, it is proposed to excavate a surplus channel for a length of 1,000 feet with a bed width of 36 feet, depth 2½ feet, slopes 1 to 1 and bed fall 1 in 666 to carry the calculated surplus.

4. There are at present one dry stone sluice and seven pot sluices in the tank. As all the pot sluices are leaky and in bad order, it is proposed to replace them by four pipe sluices with masonry head walls and shutters.

5. The estimate is recommended for sanction.

H. E. Clerk,
Chief Engineer for Irrigation.

To the Joint Secretary to Government, Public Works Department (Irrigation Branch).

Order—No. 265 I., dated 9th May 1913.

The recommendation of the Chief Engineer for Irrigation is approved and the following estimate sanctioned :—

Imperial.
Capital Expenditure not charged to Revenue.
49. Irrigation.
Periyar System.
Open Capital Account.
I. Works.
3. Distributaries.
Remunerative work.

Improvements to No. 2. Naranan Kanmoy of Kurichipatti village, Melur taluk.

	RS.
Estimate—	
C. Works—	
Constructing masonry weir and pipe sluices	1,342
B. Land—	
Compensation for land required for surplus channel	53
O. Miscellaneous—	
Sundries	25
Total { I. Works ...	1,420
Total { II. Establishment ...	310
Total ...	1,730

2. The sanction accorded in paragraph 1 above is registered as No. 29 I. of 1913-14 and will expire on the 31st March 1914.

3. The cost of the seven pot sluices proposed to be replaced, viz., Rs. 70 will be written back by the Accountant-General from the Capital to the Revenue Account of the Periyar system.

(True Extract.)

H. E. CLERK,
Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

To the Chief Engineer for Irrigation.
,, Superintending Engineer, VI Circle,
with plans and estimates.
,, Accountant-General, Madras.

Forwarded

(By Order.)

Deputy Registrar.

PUBLIC WORKS DEPARTMENT
(IRRIGATION BRANCH).

NOTES CONNECTED WITH G.O. No. 265 I., DATED 9TH MAY 1913.

[SUBJECT.—*Improvements to No. 2, Naranan Kanmoy, Periyar system, Madura division.*]

Note by the Chief Engineer for Irrigation, dated 5*th May* 1913, *R.O.C. No.* 1048/13.

Under Secretary—
Joint Secretary—

A draft order sanctioning the estimate submitted by the Chief Engineer for Irrigation is put up for approval. There is no necessity to send the order to Revenue for acceptance as the abandonment of the tanks referred to in paragraph 2 of the Chief Engineer for Irrigation's note has been approved by the Collector.

M.S.V.—1-5-13.

M.S.V.—1-5-13.

F. E. MORGAN—5-5-13.

H. E. CLERK—5-5-13.

[Issued as G.O. No. 265 I., dated 9th May 1913.]

16

P.W.D., Irrigation Branch.

9 D

pp 1-16 cf

Print

From the Supt.g Engineer
VI circle, No. 474 C.E.
d/ 20. 3. 1913

Note by the Chief Engineer

for Irrigation

ROC No. 1048/13 d/ 5.5.13

With his letter No.474 C.E., dated 20th March 1913, the S.E., VI Circle, submits an estimate amounting to -- Rs.1,420 for improvements to Naranan Kannoy, Periyar system, Melur taluk, Madura District. The estimate provides for:-

(1) Constructing a masonry weir at right flank and excavating a surplus channel - therefrom.	597
(2) Constructing 4 pipe sluices	745
(3) Land compensation for surplus channel. . .	53
(4) Demarcation &c. ..	25
Rs.	1,420

NS

KK

2/ The Naranan Kanmoi has at present an ayacut of 53.33 acres. It is proposed to increase the ayacut to 115.63 acres by converting 17.34 acres of dry and waste lands into wet and by abandoning 2 insignificant tanks below it (viz., Mandayan Kanmoi and Iswaran Koil Endal) and including their beds and ayacut lands amounting to 19.58 and 25.38 acres respectively under the direct irrigation of this tank. The anticipated increase in revenue is shown to be Rs.367 and the proposal has been approved by the Collector.

3/ The surplus from the tank passes through a cut in the bund at the right flank where a masonry weir 75 ft long is proposed to be built to discharge the whole surplus. There being no defined surplus course in rear of the escape it is proposed to excavate a surplus channel for a length of 1000 ft with a bed width of 36 ft, depth 2½ ft, slopes

1 to 1

18

slopes 1 to 1 and bed fall 1 in 666 to carry the calculated surplus.

4/ There are at present one dry - stone sluice and 7 pot sluices in the tank. As all the pot sluices are leaky and in bad order, it is proposed to - replace them by 4 pipe sluices with masonry head walls and shutters.

5/ The estimate is recommended for sanction.

~~6/ The cost of the 7 pot sluices referred to above viz, Rs 70 may be ordered to be written back from the Capital to the Revenue Account of the Periyar System~~

PR 1/5/13

5/5/13

HLL 5/5/13

To

The Joint Secy to Govt
with the C.F.

1/5/13

1/5/13

16

PUBLIC WORKS DEPARTMENT,

IRRIGATION BRANCH.

Tabling Abstract.

Improvement to No. 2, Naranan Kannoy, Periyar System

Sanctioning with remarks an estimate of Rs 1,730 including establishment charges for —

Cross References.

Projects

Read the following :—

Note by the Chief Engineer for Irrigation R.O.C. No. 1048/13, d/5-5-1913

p16.18 C7

Circulated to

Print Notes

Print Report

265-X

ORDER—No. 265 I., dated 9-5-1913

Press

The recommendation of the Chief Engineer for Irrigation is approved and the following estimate sanctioned :—

Imperial

Capital Expenditure not charged to Revenue.

49. Irrigation

Periyar System.

[illegible] 9/5

13.8

Open Capital Account
I Works
3. Distributaries
Remunerative Work

Improvements to No. 2
Naranan Kanmoy of Kurichi-
patti village, Melur Taluk.

Estimate

		Rs
C. Works.		
Constg masonry weir and pipe sluices		1,342
B. Land		
Compensation for land reqd. for Surplus Channel		53
O. Miscellaneous		
Sundries		25
Total	I Works	1,420
	II Estbt.	310
	Total	1,730

1420 - 53
= 1367
23
4101
2734
31441
or 310 roundly

2/ The Sanction accorded in para 1 above is registered as No. 29-I of 1913-14 and will expire on the 31st March 1914

3/

265 A

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161:P

3. The Cost of the seven pot sluices proposed to be replaced viz Rs 70 will be written back by the Acct. General from the Capital to the Rev. Acct. of the Periyar system.

Issue

mscc
1-5-13

[signature] 5/5/13
DT

[signature] 5/5/13
I

To

The Chief Engr. for Irrign. ✓
" SE VI Circle ✓ with plans
" A.G. Madras. ✓ letter

Dsp 15/5/13
[signature]

[signature] 8/7/13

DESPATCHED
5-MAY 1913

Point Noted

265 P

W1 – 15p

Incl 1 – 2

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